POLISH ACADEMY OF SCIENCES
COMMITTEE OF BIOCHEMISTRY AND BIOPHYSICS

QP
501
A2

Acta Biochimica Polonica

Vol. 24 No. 4

CONTENTS, nos. 1—4

INDEX OF AUTHORS

INDEX OF SUBJECTS

QUARTERLY WARSZAWA 1977

POLISH SCIENTIFIC PUBLISHERS

EDITORS

Irena Mochnacka
Konstancja Raczyńska-Bojanowska

EDITORIAL BOARD

M. Bagdasarian, I. Chmielewska, W. Mejbaum-Katzenellenbogen, K. L. Wierzchowski, L. Wojtczak, K. Zakrzewski, Z. Zielińska

ADDRESS

ul. Banacha 1, 02-097 Warszawa
(Zakład Biochemii A.M.)
Poland

WARSZAWSKA DRUKARNIA NAUKOWA
Warszawa, ul. Śniadeckich 8

CONTENTS

EXPERIMENTAL

No.1

Anastasis Pacanis and **Jerzy Rogulski**, Substrate specificity of succinyl-CoA transferase from rat kidney mitochondria 3

Andrzej Jankowski and **Ignacy Z. Siemion**, The determination of tryptophan and tyrosine in native proteins on the basis of inner filter effect in spectrofluorimetry 13

Tomasz Twardowski and **Andrzej B. Legocki**, Interaction of elongation factor 2 from wheat germ with guanosine nucleotides and ribosomes 21

Leszek Szmigiero, Krystyna Śląska, Ewa Ciesielska, Barbara Jaros-Kamińska and **Marek Gniazdowski**, Structure of acridines and their effect of RNA synthesis *in vitro* . . . 35

Edward Bańkowski, Proteolysis of procollagen I 45

Elżbieta Pajdak and **Zdzisław Szafran**, Purification and properties of L-asparaginase EC-2 from *Escherichia coli* 055:B5 53

Bogdan Sieliwanowicz, Małgorzata Kalinowska and **Irena Chmielewska**, Appearance of poly(A)-rich RNA in germinating pea seeds 59

Jadwiga Kamać, J. A. Siedlecki and **Barbara Żmudzka**, DNA polymerase γ of rabbit intestinal epithelial cells 65

Danuta Sawnor-Korszyńska, Ewa Morzycka, Daniela Zaborowska and **Konstancja Raczyńska-Bojanowska**, Compartmentation of the amino acid pool in *Saccharomycopsis lipolytica* 75

No. 2

Andrzej J. Żelazowski and **Jerzy K. Piotrowski**, A modified procedure for determination of metallothionein-like proteins in animal tissues 97

Marek Michalak, M. Gabriela Sarzała and **Witold Drabikowski**, Sarcoplasmic reticulum vesicles and glycogen-protein particles in microsomal fraction of skeletal muscle . . 105

Piotr Masłowski, Halina Masłowska and **Stanisław Kowalczyk**, Subcellular distribution and properties of alkaline inorganic pyrophosphatase of maize leaves 117

Wanda Krajewska, Anna Lipińska, Zofia Kiliańska and **Leokadia Kłyszejko-Stefanowicz**, Activity of chromatin-bound protease from rat liver and Morris hepatomas 127

Marian Szymona, Halina Kowalska and **Irena Pastuszak**, Polyphosphate-glucose phosphotransferase. Purification of *Mycobacterium tuberculosis* $H_{37}Ra$ enzyme to apparent homogeneity 133

Maria Grabowska, Stanisław Szala and **Mieczysław Chorąży**, Transcription of rat DNA fractions reassociated to various C_0t values 143

Wiesław Wątorek, Bronisława Morawiecka and **Bożena Korczak**, Acid phosphatase of the yeast *Rhodotorula rubra*. Purification and properties of the enzyme 153

Hieronim Jakubowski and **Jerzy Pawełkiewicz**, The plant aminoacyl-tRNA synthetases. Effect of sodium chloride on tRNA aminoacylation and aminoacyl-tRNA decomposition catalysed by aminoacyl-tRNA synthetases from yellow lupin seeds 163

No. 3

Maria Sarnecka-Keller and **Anna Kordowiak**, The activity of Golgi-membrane galactosyltransferase in the liver of streptozotocin-diabetic rats 179

Ewa Dahlig and **Zofia Porembska**, Reactivation of the EDTA-treated arginase from rat and calf liver 187
Ewa Popowska and **Celina Janion**, The N^4-hydroxycytidine reduction system in toluenized cells of *Salmonella typhimurium* 197
Lech Dudycz, Edward Darżynkiewicz and **David Shugar**, Kinetics of deamination of cytosine nucleosides with etherified sugar hydroxyls 207
Edward Darżynkiewicz, Irena Ekiel, Lech Dudycz, Anna Rudzińska and **David Shugar**, Preparation of *O'*-methyl derivatives of 9-β-D-xylofuranosyladenine 215
Janina Droese, Segregation of the ability to degrade lupanine in *Pseudomonas lupanini* . 225
Jerzy Giziewicz and **David Shugar**, Preparation and properties of formycin analogues methylated on the pyrazolo ring nitrogens and/or the ribose *cis*-hydroxyls 231

No. 4

Tadeusz Strzelecki and **Jerzy Rogulski**, Effect of extracellular pH and inhibitors on the gluconeogenesis and ammoniagenesis relationship in rat kidney cortex slices 253
Ewa Grąbczewska, Bożenna Olszańska and **Zofia Lassota**, Precursors of cytoplasmic RNA in avian cell nucleus 261
Kornel Nowak, Marian Kuczek, Alina Słomińska and **Tadeusz Wilusz**, Amino acid sequence of the basic trypsin inhibitor from bovine splenic capsule. A new fluorescent reagent for protein sequence analysis 275
Julian Świerczyński, Piotr Ścisłowski and **Zenon Aleksandrowicz**, Effect of some glycolytic intermediates and palmitoyl-CoA on α-glycerophosphate dehydrogenase in mitochondria isolated from liver of triiodothyronine-treated rats 281
Maria Borucka-Mankiewicz and **Jan W. Szarkowski**, Purification and some properties of a nuclease from rye germ nuclei 289
Antoni J. Rafalski, Jan Barciszewski, Krzysztof Gulewicz, Tomasz Twardowski and **Gerard Keith**, Nucleotide sequence of $tRNA^{Phe}$ from the seeds of lupin (*Lupinus luteus*). Comparison of the major species with wheat germ $tRNA^{Phe}$ 301
Urszula Karwowska and **Jacek Augustyniak**, Leucine transfer RNA from barley. Characterization and purification of isoaccepting species 319
Halina Karbonowska, Alina Wiater and **Danuta Hulanicka**, Sulphate permease of *Escherichia coli K12* 329
Elżbieta Wolna, The reaction of *N*-bromosuccinimide with enolase 335

REVIEWS

No. 1

A. Wisman (ed.) Handbook of Enzyme Biotechnology (*K. Raczyńska-Bojanowska*) . . . 87
S.B. Needleman (ed.), Protein Sequence Determination (*K. Zakrzewski*) 88
E. D. T. Atkins and A. Keller (eds.), Structure of Fibrous Biopolymers (*A. M. Dancewicz*) 89
H. J. Fromm, Initial Rate Enzyme Kinetics (*M. Żydowo* and *K. Kaletha*) 90
E. Broda, The Evolution of the Bioenergetic Processes (*A. B. Wojtczak*) 92
H. von Rein, Einführung in die Physiologie des Menschen (*M. Żydowo*) 92
D. S. Saunders, Insect Clocks (*B. Cymborowski*) 93
Topics in Current Chemistry — Inorganic Chemistry, vol. 64 (*W. Ostrowski*) 95
E. Betz (ed.), Ionic Action on Vascular Smooth Muscle with Special Regard to Brain Vessels (*A. Wieraszko*) 96

No. 2

T. K. Ghose, A. Fiechtner and N. Blakebrough (eds.) Advances in Biochemical Engineering, vol. 4 (*H. Oberman*) 171

H. Greten (ed.) Lipoprotein Metabolism (*H. Wehr*) 172

L. M. G. Heilmeyer, Jr., J. C. Rüege and Th. Wieland (eds.) Molecular Basis of Motility (*W. Drabikowski*) 173

L. T. Threadgold, The Ultrastructure of Animal Cell (II edition) (*W. Sendecki*) 174

G. D. Birnie (ed.), Subnuclear Components. Preparation and Fractionation (*J. Malec*) . . 175

J. J. Tyson, The Belousov-Zhabotinskii Reaction (*A. Rabczenko*) 176

H. Peeters (ed.), Phosphatidylcholine. Biochemical and Clinical Aspects of Essential Phospholipids (*H. Wehr*) 177

M. Gabe, Histological Techniques (*H. Sierakowska*) 177

No. 3

D. Kritchevsky (ed.), Hypolipidemic Agents (*H. Wehr*) 247

A. J. Cornish-Bowden, Principles of Enzyme Kinetics (*M. Żydowo* and *K. Kaletha*) . . 247

Z. Lojda, R. Gossrau and T. H. Schiebler, Enzym-Histochemische Methoden *(J. Kawiak)* 248

T. Keleti and S. Lakatos (eds.), Mathematical Models of Metabolic Regulation (*K. Kaletha* and *M. Żydowo*) 248

U. Winkler, W. Rüger and W. Wackernagel, Bacterial, Phage and Molecular Genetics. An Experimental Course (*M. Bagdasarian*) 250

G. A. Jamieson and D. M. Robinson (eds.), Mammalian Cell Membranes, vol. 3: Surface membranes of specific cell types (*B. Grzelakowska-Sztabert*) 251